

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2062_01_f_2013_2				
Comment Code					
Inspector Comment					
The O&M Manual is available at the LMA's office.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2062_01_s_2013_5				
Comment Code					
Inspector Comment					
Adequate flood fight supplies are available on-site.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2062 Stewart

No Photos

View of the new patrol road installation in process.

View of the vegetation on the waterside levee slope.

Page 2 of 3

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.64	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	2.14	Rating **	M	Issue No.	9
LM End	2.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.793991 °	37.793991 °
				-121.308524 °	-121.308524 °
DWR ID	DWR_RD2062_01_f_2016_9				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
It is recommended to control levee access to prevent possible future damage to the levee slopes.					

Photo 1 of 1 : FA_2016_RD2062_309_9_20160929_00012.jpg



View of the waterside levee slope erosion due to vehicles driving on the slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	2.76	Rating **	A	Issue No.	11
LM End	2.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.803462°	37.803462°
				-121.371146°	-121.371146°
DWR ID	DWR_RD2062_02_f_2016_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
LMA has good vegetation control program.					

Photo 1 of 1 : FA_2016_RD2062_310_11_20160929_00030.jpg



View of the vegetation on the waterside levee slope.

LM Start	2.84	Rating **	C	Issue No.	3
LM End	2.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.803827 °	37.803827 °
				-121.372424 °	-121.372424 °
DWR ID	DWR_RD2062_02_s_2012_3				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Three small tree stumps.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	2.88	Rating **	C	Issue No.	13
LM End	2.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.804060°	37.804060°
				-121.373245°	-121.373245°
DWR ID	DWR_RD2062_02_s _ 2012_13				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Four small oak stumps on levee slope.					

No Photos

LM Start	2.98	Rating **	C	Issue No.	14
LM End	2.98	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.804452 °	37.804452 °
				-121.374903 °	-121.374903 °
DWR ID	DWR_RD2062_02_s _ 2012_14				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	3.01	Rating **	C	Issue No.	15
LM End	3.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.804481 °	37.804481 °
				-121.375510 °	-121.375510 °
DWR ID	DWR_RD2062_02_s _ 2012_15				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	3.96	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	3.64	Rating **	M	Issue No.	8
LM End	3.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.806347°	37.806347°
				-121.386692°	-121.386692°
DWR ID	DWR_RD2062_02_s_2014_8				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2062_310_8_20160914_00002.jpg



View of the erosion from surface runoff on the waterside levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	-0.04	Rating **	U	Issue No.	1
LM End	0.06	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809414 °	37.809414 °
				-121.390328 °	-121.390328 °
DWR ID					

Comment Code

Inspector Comment

07/25/2016: No significant change observed.
 06/25/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/13/2013: No significant change observed.
 08/07/2012: The site has been visited by boat survey. No significant change observed
 08/23/2011: Site is at the upstream of a drainage ditch. [2016 Site ID:RD2062U03RM29.93]

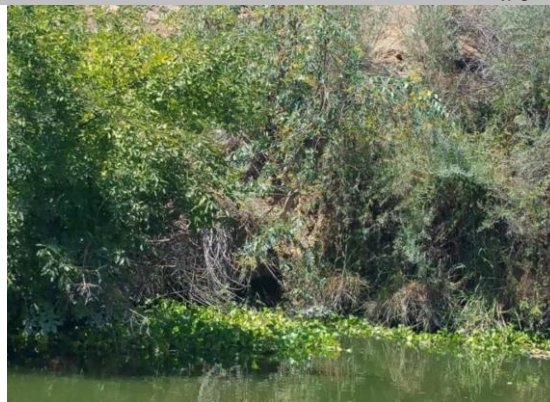
LM Start	-0.04	Rating **	U	Issue No.	1 (cont)
LM End	0.06	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SJR2016_RD2062U03RM29.93_1.jpg



Front view of the erosion.

Photo 2 of 2 : SJR2016_RD2062U03RM29.93_2.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	0.02	Rating **	M	Issue No.	2
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809514 °	37.809514 °
				-121.390125 °	-121.390125 °
DWR ID					
Comment Code					
Inspector Comment					
11/09/2016: No significant change observed.					
06/25/2015: The erosion is below a large oak tree. Vegetation is visible around the erosion site. [2016 Site ID:RD2062U03RM29.94]					

LM Start	0.02	Rating **	M	Issue No.	2 (cont)
LM End	0.03	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SJR2016_RD2062U03RM29.94_1.jpg



Front view of the erosion site. Note the large tree above the erosion.

Photo 2 of 2 : SJR2016_RD2062U03RM29.94_3.jpg



Close view of the erosion.

LM Start	0.08	Rating **	C	Issue No.	3
LM End	0.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.809727 °	37.809727 °
				-121.389100 °	-121.389100 °
DWR ID	DWR_RD2062_03_f_2012_3				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	0.10	Rating **	U	Issue No.	4
LM End	0.11	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.809932 °	37.809932 °
				-121.388788 °	-121.388788 °
DWR ID					

Comment Code

Inspector Comment

07/25/2016: No significant change observed.
 06/25/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/13/2013: No significant change observed.
 08/07/2012: The site has been visited by boat survey. No significant change observed
 08/23/2011: Hard to view the erosion because of the dense vegetation and trees on site. The site is under the bush, close to the tree. [2016 Site ID:RD2062U03RM30.02]

LM Start	0.10	Rating **	U	Issue No.	4 (cont)
LM End	0.11	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SJR2016_RD2062U03RM30.02_1.jpg



Front view of the site.

Photo 2 of 2 : SJR2016_RD2062U03RM30.02_2.jpg



Close view of the site. Note vegetation at the site.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	0.17	Rating **	N	Issue No.	6
LM End	0.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.810194°	37.810194°
				-121.387602°	-121.387602°
DWR ID	DWR_RD2062_03_s_2012_6				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2062_311_6_20160929_00059.jpg



View of the tree stump on the waterside levee slope.

LM Start	0.17	Rating **	M	Issue No.	5	
LM End	0.17	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.810268°	37.810268°	
				-121.387495°	-121.387495°	
DWR ID						
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/25/2015: No significant change observed.						
07/02/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: The protection at the levee toe has been washed away.						
[2016 Site ID:RD2062U03RM30.1]						

Photo 1 of 2 : SJR2016_RD2062U03RM30.1_1.jpg



Direct view of the site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	0.17	Rating **	M	Issue No.	5 (cont)
LM End	0.17	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810268°	37.810268°
				-121.387495°	-121.387495°
DWR ID					

Comment Code

Inspector Comment

07/25/2016: No significant change observed.
 06/25/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/13/2013: No significant change observed.
 08/07/2012: The site has been visited by boat survey. No significant change observed
 08/23/2011: The protection at the levee toe has been washed away.
 [2016 Site ID:RD2062U03RM30.1]

Photo 2 of 2 : SJR2016_RD2062U03RM30.1_2.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	0.22	Rating **	U	Issue No.	8
LM End	0.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.810609 °	37.810609 °
				-121.385879 °	-121.385879 °
DWR ID					

Comment Code

Inspector Comment

07/25/2106: No significant change observed. More vegetation observed at the site.
 06/25/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/13/2013: A new pocket erosion at the upper levee slope has been found directly above a large tree. The erosion might have been caused by internal pipe leakage or surface runoff.
 08/07/2012: The site has been visited by boat survey. No significant change observed
 08/23/2011: No significant change observed on site. Dense vegetation is visible along the water line.
 09/07/2010: No significant change observed on site. Much of the upper slope was recently cleared of vegetation by spraying. 4- to 6-foot vertical scarp and pocket erosions are lined along a span of 475 feet. In some sections, the vertical scarp encroaches into the levee prism. There is a lack of berm along this reach, exposing the levee slope to high flow velocities during normal and flood events.
 08/06/2010: Recommended as local maintenance issue, per CLRO.
 03/09/2010: As discussed with Michael Moncrief of MBK Engineers, the site will be 'addressed' later this year.
 09/29/2009: No major change observed since last visit; pocket erosion and a vertical scarp forming; this site was combined with Site RM30.13 and 30.02 with a combined total erosion length of 475 feet; recommended as annual assessment and monitoring of the site, per CLRO CES Evaluation 2008 Report; previously rated "M".
 11/05/2008: Top of vertical scarp has rip rap that appears to be sliding; rodent holes; existing toe rip rap. [2016 Site ID:RD2062U03RM30.19]

Photo 1 of 1 : SJR2016_RD2062U03RM30.19_2.jpg



Close view of the pocket erosion. Note the dense vegetation at the site.

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	0.35	Rating **	M	Issue No.	9
LM End	0.35	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.811101°	37.811101°
				-121.384402°	-121.384402°
DWR ID					

Comment Code

Inspector Comment

07/25/2016: No significant change observed.
 06/25/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/13/2013: No significant change observed.
 08/07/2012: The site has been visited by boat survey. No significant change observed
 08/23/2011: The site is right at the downstream of a river bend. [2016 Site ID:RD2062U03RM30.27]

LM Start	0.35	Rating **	M	Issue No.	9 (cont)
LM End	0.35	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SJR2016_RD2062U03RM30.27_1.jpg



Front view of the erosion.

Photo 2 of 3 : SJR2016_RD2062U03RM30.27_2.jpg



Close view of the site. Note the dense vegetation at the site.

*** Location**

LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	0.61	Rating **	C	Issue No.	10
LM End	0.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.813570°	37.813570°
				-121.382094°	-121.382094°
DWR ID	DWR_RD2062_03_s_2012_10				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Stump in slope.					

No Photos

LM Start	0.64	Rating **	C	Issue No.	12
LM End	0.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.813894°	37.813894°
				-121.381680°	-121.381680°
DWR ID	DWR_RD2062_03_s_2012_12				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
2 stumps on waterside slope.					

No Photos

LM Start	0.81	Rating **	C	Issue No.	11
LM End	0.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.816315°	37.816315°
				-121.381587°	-121.381587°
DWR ID	DWR_RD2062_03_s_2012_11				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Cracking developing along the waterside levee hinge.					

No Photos

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	1.04	Rating **	M	Issue No.	36
LM End	1.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.817764 °	37.817764 °
				-121.378623 °	-121.378623 °
DWR ID	DWR_RD2062_03_s_2016_36				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2062_311_36_20160914_00038.jpg



View of the tree at the landside levee toe.

LM Start	1.05	Rating **	C	Issue No.	34
LM End	1.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.817897 °	37.817897 °
				-121.378649 °	-121.378649 °
DWR ID	DWR_RD2062_03_f_2015_34				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
LMA grouted rodent burrows.					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	1.18	Rating **	U	Issue No.	17
LM End	1.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.819290 °	37.819290 °
				-121.378880 °	-121.378880 °
DWR ID					
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/25/2015: No significant change observed.					
07/02/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: No significant change observed on site.					
09/07/2010: No significant change observed on site. Much of the seasonal grass along the slope was cleared. Site consists of an existing scalloped erosion approximately 30 feet long by 5 feet wide at its widest opening. The lateral crack is extended outwards along the middle slope. There is a 1 to 2 feet of differential settlement that could further develop into a shallow slide.					
08/06/2010: Recommended as local maintenance issue, per CLRO.					
03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' this year.					
09/28/2009: No major change observed; section of rip rap has slipped, creating a terraced effect; dense vegetation growth; recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.12, LM1.25; previously rated "U".					
09/14/2006: 1-2' into prism. [2016 Site ID:RD2062U03RM31.12]					

A photograph showing a grassy hillside with some shrubs and trees, overlooking a body of water. The sky is clear and blue.

LM Start	1.31	Rating **	C	Issue No.	32					
LM End	1.31	Issue Type +	Ma	Location *	WS					
Category	Earthen Levee			GPS Latitude/Longitude						
				Start	End					
Item	Slope Stability			37.820390 °	37.820390 °					
				-121.377148 °	-121.377148 °					
DWR ID	DWR_RD2062_03_s _ 2016_32									
Comment Code										
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.										
Inspector Comment										

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	1.32	Rating **	M	Issue No.	42
LM End	1.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820483 °	37.821253 °
				-121.377118 °	-121.376993 °
DWR ID	DWR_RD2062_03_f_2016_42				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	1.35	Rating **	A/W	Issue No.	18
LM End	1.35	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820885 °	37.820885 °
				-121.376986 °	-121.376986 °
DWR ID	DWR_RD2062_03_s_2012_18				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberry bush blocks visibility.					

Photo 1 of 1 : FA_2016_RD2062_311_18_20160914_00029.jpg



05/11/2011 Elderberry bush on water side slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	1.39	Rating **	U	Issue No.	43
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.821380 °	37.821380 °	
			-121.376900 °	-121.376900 °	
DWR ID					

Comment Code

Inspector Comment

07/25/2016: No significant change observed.
 06/25/2015: No significant change observed.
 07/02/2014: No significant change observed.
 08/13/2013: No significant change observed.
 08/07/2012: The site has been visited by boat survey. No significant change observed
 08/23/2011: No significant change observed on site.
 09/07/2010: No significant change observed on site. There is a small- to medium sized Oak tree on the mid-slope just above rip rap. Some of the rip rap has collapsed, creating a pocket erosion just above the existing toe rip rap and upstream of the Oak tree.
 08/06/2010: Recommended as local maintenance issue, per CLRO.
 03/09/2010: As discussed with Michael Moncrief of MBK Engineer, site will be 'addressed' in 2010.
 09/29/2009: No major change since last visit; sliding of the rip rap at the base of the lone tree; there is noticeable man-made trail and foot traffic extending from the crown to the toe; much of the broken concrete used as temporary rip rap has slid, exposing portion of the bare levee slope; recommended as local maintenance issue, per CLRO CES Evaluation 2008 Report; Site # is the same as RM31.3, LM1.45; previously rated "M".
 11/05/2008: Portion of rip rap collapsing.
 09/14/2006: Portion of rip rap along the slope has collapsed; exposed levee section is starting to erode, exposing roots from the nearby tree.
 [2016 Site ID:RD2062U03RM31.28]

LM Start	1.39	Rating **	U	Issue No.	43 (cont)
LM End	1.40	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SJR2016_RD2062U03RM31.28_1.jpg



Front view of the erosion site.

Photo 2 of 2 : SJR2016_RD2062U03RM31.28_3.jpg



Front view of the site. Note the existing broken concrete on the upper levee slope as well as on the lower slope and at the toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	1.50	Rating **	C	Issue No.	14
LM End	1.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.821388 °	37.821388 °
				-121.374947 °	-121.374947 °
DWR ID	DWR_RD2062_03_s _ 2012_14				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	1.61	Rating **	M	Issue No.	29
LM End	1.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.820833 °	37.820833 °
				-121.373152 °	-121.373152 °
DWR ID	DWR_RD2062_03_s _ 2016_29				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2062_311_29_20160914_00032.jpg



View of a tire rut on the landside levee hinge.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	2.12	Rating **	A/W	Issue No.	40
LM End	2.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.818620 °	37.818620 °
				-121.364830 °	-121.364830 °
DWR ID	DWR_RD2062_03_f_2016_40				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
LMA corrected the erosion of levee due to break in the pipe.					

Photo 1 of 1 : FA_2016_RD2062_311_40_20160929_00057.jpg



View of the landside levee slope damaged by pipe.

LM Start	2.51	Rating **	C	Issue No.	30
LM End	2.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.816930 °	37.816930 °
				-121.359025 °	-121.359025 °
DWR ID	DWR_RD2062_03_f_2015_30				
Comment Code					
Inspector Comment					
LMA grouted the rodent burrow.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	2.79	Rating **	C	Issue No.	22
LM End	2.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.816341°	37.816341°
				-121.354008°	-121.354008°
DWR ID	DWR_RD2062_03_s _ 2012_22				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	2.85	Rating **	C	Issue No.	23
LM End	2.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.816330°	37.816330°
				-121.352775°	-121.352775°
DWR ID	DWR_RD2062_03_s _ 2012_23				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	3.04	Rating **	C	Issue No.	25
LM End	3.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.817791°	37.817791°
				-121.350088°	-121.350088°
DWR ID	DWR_RD2062_03_s _ 2012_25				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	3.10	Rating **	C	Issue No.	26
LM End	3.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.818532 °	37.818532 °
				-121.349510 °	-121.349510 °
DWR ID	DWR_RD2062_03_s_2012_26				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	3.40	Rating **	M	Issue No.	39
LM End	3.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819007 °	37.817526 °
				-121.345610 °	-121.343479 °
DWR ID	DWR_RD2062_03_f_2016_39				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2062_311_39_20160929_00056.jpg



View of the vegetation at the landside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	4.75	Rating **	C	Issue No.	7
LM End	4.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.813986 °	37.813986 °
				-121.335821 °	-121.335821 °
DWR ID	DWR_RD2062_03_s_2012_7				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
14" stump on landside slope.					

No Photos

LM Start	4.83	Rating **	M	Issue No.	35
LM End	4.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.812849 °	37.811682 °
				-121.336116 °	-121.336271 °
DWR ID	DWR_RD2062_03_f_2014_35				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
2 to 3 feet vertical cut possibly caused by previous floods.					

Photo 1 of 1 : FA_2016_RD2062_311_35_20160914_00037.jpg



View of a 2-3 feet vertical cut at the landside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2062 Stewart

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Old River	Left	5.55	09/28/2016 09/28/2016	Maksim Khashchuk

LM Start	5.16	Rating **	C	Issue No.	28
LM End	5.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Slope Stability		37.808340°	37.808340°	
			-121.334932°	-121.334932°	
DWR ID	DWR_RD2062_03_s_2016_28				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement